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School Bulletin No. 1, and is intended to serve as a guide for the high schools of the state. The work as outlined includes the cell, the blue-green algae, the green algae, the lower fungi, brown seaweeds, higher green algae, red algae, higher fungi, liverworts, mosses, ferns and their allies. This is followed with sixteen lessons on the structure and activities of the seed plants and suggestive paragraphs on how to make a botanical museum and herbarium, how and what apparatus to buy, a list of text- and reference-books, etc., etc. It must prove very helpful to high school principals and those who are teaching botany in these schools.

ANOTHER TREE BOOK

MR. ROMEYN B. HOUGH, well and favorably known in connection with his publication of sections of American woods, has issued a stout volume of 464 pages under the title of "Hand-book of the Trees of the Northern States and Canada east of the Rocky Mountains." In this book one finds for each of the more than two hundred species included, on one page a reproduction of a photograph of the leaves, twigs and fruit, and on the page opposite, a similar photograph of the trunk, a map showing distribution, a careful description, and in many cases an enlarged photograph of a cross-section of the wood. The photographs are admirably selected, and have been reproduced very successfully. Those showing leaves and fruits are upon a background marked into squares which originally were square inches, and so while the pictures have been reproduced with different degrees of reduction, the lines enable one at once to make out the actual dimensions of the objects. This device is very ingenious, and should be more generally adopted by book-makers. The little maps are admirable, and tell more exactly the distribution of each species than is possible by any amount of mere description.

At the beginning of the volume is a key to the families, based mainly upon the flowers, and in the back portion is given a synopsis of the families and genera, with keys to the species. Here occur also the descriptions of a considerable number of species not found in the illustrated part of the volume. The book

closes with a full glossary, and a well-arranged index. It will be indispensable to the botanist, and the student of forestry.

CHARLES E. BESSEY

THE UNIVERSITY OF NEBRASKA

APPOINTMENTS AT TULANE UNIVERSITY

THE following changes are noted in the faculty of the Tulane University of Louisiana for 1907-8:

Dr. Robert Sharp, head of the department of English, has been granted a year's leave of absence, and has selected as his substitute Mr. Armour Caldwell, of Columbia and Harvard, who with Assistant Professor Brown, of the department of English, will carry on Dr. Sharp's work for the present session.

Dr. Ulrich B. Phillips, assistant professor of American history in the University of Wisconsin, who has been granted a year's leave of absence by that university, has been selected to fill the chair of history, made vacant by the death of Professor John R. Ficklen.

Professor J. M. Gwinn, professor of pedagogy in the Missouri State Normal School, at Warrensburg, has been appointed to the newly-established chair of education.

Dr. John C. Ransmeier, who recently returned from Europe, where he has been traveling on the John Harvard fellowship, has been appointed assistant professor of German, vice Professor John Hanno Deiler, who retired last June on a Carnegie pension.

Dr. William B. Smith, former professor of mathematics, who spent the most of last year in Europe, will fill the chair of philosophy. Dr. Joseph N. Ivey, associate professor of mathematics, has been appointed head of that department.

Professor Douglas S. Anderson, who was granted a year's leave of absence in 1906-7, and who spent the greater part of his time at the Polytechnic School at Zurich, Switzerland, has returned to take up his work as head of the department of electrical engineering.

Professor William B. Gregory will pursue studies at Cornell University for the session of 1907-8. Mr. James M. Robert will act as his substitute.

Professor B. Palmer Caldwell will take charge of the work in chemistry, Professor John W. Caldwell having retired from this position last June on a Carnegie pension. He will be assisted by Messrs. Scott C. Lyon and H. B. Reese.

Mr. G. Byron Waldrop has been appointed to the teaching fellowship in Greek.

Mr. George J. Theriot and Mr. Sidney Crespo have been appointed instructors of mechanical drawing and mechanic arts, respectively.

Mr. Andre Dreux, graduate of L'Ecole des Chartes, Paris, noted lecturer and critic, has been elected to the vacancy in the department of French in Newcomb College, Miss Marie Augustin having retired from this position last June on a Carnegie pension.

Dr. J. A. C. Mason, former fellow in Columbia University, has been appointed to the chair of history in Newcomb College. Professor Pierce Butler, who formerly held this chair, has been promoted to the chair of English, Mrs. Jane C. Nixon having retired last June on a Carnegie pension.

Miss Margaret E. Cross, head of the department of Latin and psychology in the State Normal School, at Natchitoches, Louisiana, will take charge of the department of education in Newcomb College.

Dr. Edmond Souchon, who taught for twenty-eight years in the medical department of the university, retired last June on a Carnegie pension.

The following promotions and appointments have been made in the medical department since the close of last session:

Dr. Isadore Dyer, associate dean and professor of diseases of the skin; Dr. Paul E. Archinard, professor of diseases of the nervous system; Dr. J. B. Elliott, professor of clinical medicine; Dr. E. D. Fenner, professor of orthopedics and surgical diseases of children; Dr. Henry Bayon, acting professor and demonstrator of anatomy; Dr. Marcus Feingold, professor of ophthalmology; Dr. Charles J. Landfried, professor of otology, laryngology and rhinology; Dr. Herman B. Gessner, associate professor of operative surgery and instructor of clinical surgery; Dr. W. W. But-

terworth, associate professor of diseases of children; Dr. S. M. D. Clark, associate professor of gynecology; Dr. George S. Bel, associate professor of clinical medicine; Dr. Marion S. Souchon, assistant demonstrator of anatomy and instructor of clinical surgery; Dr. William M. Perkins, demonstrator of operative surgery and instructor of clinical surgery; Dr. Ralph Hopkins, lecturer and instructor in physiology, hygiene and diseases of the skin; Dr. John Smyth, lecturer and demonstrator in the laboratory of minor surgery and instructor of clinical surgery; Dr. Urban Maes, junior assistant demonstrator of operative surgery and instructor of clinical surgery; Dr. Joseph D. Weis, lecturer and instructor in clinical medicine; Dr. I. I. Lemann, lecturer and instructor in clinical medicine; Dr. J. L. C. Perrilliat, clinical instructor of obstetrics; Dr. Charles C. Bass, instructor of clinical microscopy and clinical medicine; Dr. Edward O. Trahan, assistant demonstrator in the microscopical laboratory; Dr. George J. Tusson, assistant demonstrator in the microscopical laboratory; Dr. Sidney K. Simon, instructor of clinical medicine; Dr. Eugene deBellard, assistant demonstrator in the microscopical laboratory; Dr. Carroll W. Allen, instructor of clinical surgery; Dr. J. B. Crawford, junior assistant demonstrator of operative surgery; Drs. C. J. Miller, L. R. DeBuys and P. B. Salatich, chiefs of clinics of obstetrics and gynecology; Drs. P. A. McIlhenny and E. S. Hatch, chiefs of clinics of orthopedics and surgical diseases of children; Dr. Henry Daspit, Jr., chief of clinic for practise of medicine.

The university will erect at once on the campus, opposite Audubon Park, buildings for its medical department at a cost, including laboratories, of \$260,000. The first two years' work of the medical department will hereafter be given upon the university campus; the work will be rigidly scientific. The last two years' work will be given in the present downtown building, which is near the Charity Hospital, with which the medical department of the university is affiliated. During the year, three professors will be added to the medical faculty—a professor of anatomy, a professor

of physiology and a professor of pathology. The maximum salary for these positions is fixed at \$5,000.

ARCHEOLOGICAL WORK IN ARIZONA

DURING the past season the Committee on American Archeology of the Archeological Institute of America offered properly qualified students the privilege of joining the field expeditions of the Institute in Colorado, Utah and New Mexico. A number of students availed themselves of the opportunity to participate in the practical work of exploration, mapping and excavation of ruins in the San Juan and Rio Grande basins. These expeditions closed on October 1.

Through the courtesy of the Secretary of the Smithsonian Institution the committee is authorized to announce that the government excavations at Casa Grande, in the Gila Valley, Arizona, will be resumed about November 1, under the direction of Dr. J. Walter Fewkes, to continue during the fall and winter, and that students may arrange through the Archeological Institute to participate in the work at this site. As government institutions are not permitted to accept volunteer services, Dr. Fewkes is authorized to pay a limited number of students (not to exceed ten) for their services in connection with the work a nominal salary of ten dollars per month, it being understood that they provide for their own traveling expenses and subsistence. This nominal salary will about cover field subsistence at Casa Grande.

Students desiring to avail themselves of this opportunity should correspond with the undersigned as early as convenient. Applications should be accompanied by the recommendation of the professor under whom the applicant has studied. EDGAR L. HEWETT,

Director of American Archeology

ARCHEOLOGICAL INSTITUTE OF AMERICA,

1333 F STREET, WASHINGTON, D. C.,

October 21, 1907

BRITISH MUSEUM MODEL OF EURYPTERUS

IN the Upper Silurian rocks of the island of Oesel, in the Baltic, are found the fossil remains of an arthropod called *Eurypterus*

Fischeri. This animal is of interest as one of an extinct group of arthropods that appear to have been allied to the modern *Limulus* or king-crab, as well as to the scorpions. These particular fossils have a further interest in that the chitinous substance of the outer coat of the animal has been preserved unaltered in chemical and physical composition. Thus Professor G. Holm, of Stockholm, has been able to dissolve the remains out from the rock by means of acid, and to mount them on glass slides in Canada balsam. On the preparations thus obtained, he based an elaborate description, published in the *Memoirs of the Academy of Science*, St. Petersburg (Ser. 8, Vol. VIII., No. 2, 1898). It can now be said that the structure of this species is known better than that of any other extinct arthropod. Several of Professor Holm's preparations preserved in the geological department of the British Museum are quite marvelous, and it is difficult to believe that one is looking at a fossil at all, still more one dating from the Silurian Epoch.

The perfection of these specimens and the interest of the animal suggested to members of the staff of the British Museum (Natural History) the advisability of preparing a complete model of it, and such a model in colored wax, of about twice the natural size, has now been made under the direction of Dr. W. T. Calman and Dr. F. A. Bather by Mrs. Vernon Blackman, whose beautiful models of plants, of the parasite of malaria, and of the tsetse fly are well known to all visitors to the Natural History Museum in the Cromwell Road.

The model was first placed on exhibition on the occasion of the visit of foreign geologists to the Centenary of the Geological Society of London and evoked their enthusiastic admiration. It measures 23 x 15 cm. The wax of which it is made will stand any extremes of temperature likely to be met with in a museum, and the colors are believed to be quite permanent; they are based upon those of the recent *Limulus*, and Sir Ray Lankester has shown great interest in their selection. The model which, it may be mentioned, has been subjected to the careful scrutiny of Professor